

Patent Abstracts of Japan

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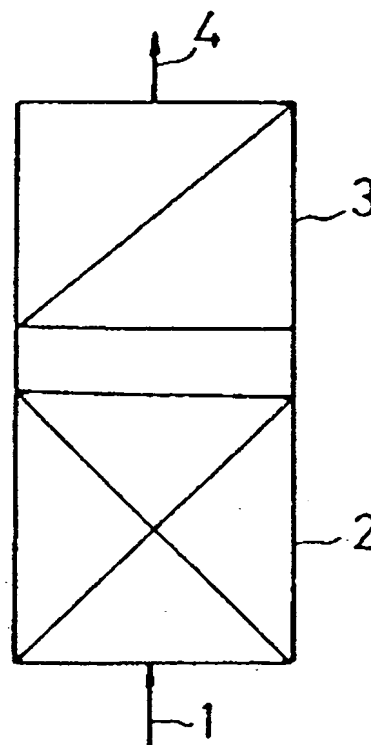
APPLICATION DATE : 19-08-86  
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TITLE : TREATMENT OF WASTE ZONE



ABSTRACT : PURPOSE: To treat even low-concd. waste ozone with high efficiency by bringing an ozone-contg. gas into contact with ion-exchange fiber obtained by depositing an ion-exchange material on natural or artificial fiber.

CONSTITUTION: For example, an electron beam is projected on a carrier of fibrous polypropylene, etc., the carrier is dipped in a soln. contg. hydroxystyrene monomer and isoprene, a graft polymerization reaction is carried out, and after quaternary amination, the obtained anion-exchange resin is fabricated into a nonwoven fabric, etc., to obtain an ion-exchange filter 3. The waste ozone  $O_3$  1 discharged from the  $O_3$  reactor in a sewage disposal plant and having a relatively high content of  $O_3$  is decomposed to a relatively low content in the bed 2 packed with an ozone decomposing catalyst, then treated with the ion-exchange filter 3, and discharged as a treated gas 4 having an extremely low content of  $O_3$ .

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